

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 09223617
PUBLICATION DATE : 26-08-97

APPLICATION DATE : 17-12-96
APPLICATION NUMBER : 08336990

APPLICANT : MITSUBISHI MATERIALS CORP;

INVENTOR : TAKESHITA TAKUO;

INT.CL. : H01F 1/08 C22C 33/02 C22C 38/00 C22C 38/00 H01F 1/053

TITLE : RARE EARTH-B-FE SINTERED MAGNET SUPERIOR IN CORROSION RESISTANCE
AND MAGNETIC CHARACTERISTIC AND MANUFACTURING METHOD THEREOF

ABSTRACT : PROBLEM TO BE SOLVED: To improve the corrosion resistance and magnetic
characteristic.

SOLUTION: This magnet has a compsn. composed of an $R_2Fe_{14}B$ phase (R is at least one of rare earth elements, including Y) and grain boundary phase existing round that phase. The grain boundary phase contains at least one of Ni, Co, Mn, Cr, Ti, V, Al, Ga, In, Zr, Hf, Ta, Nb, Mo, Si, Re and W 20-90atom.%.

COPYRIGHT: (C)1997,JPO